



1. ERADICATION OF AQUATIC WEEDS

 Aquatic weeds are unwanted plants that grow within the water and along the margins. Due to nutrient rich water body undesirable plants and weeds are grow in the large quantity. They reduce productivity of pond by depletion of essential nutrients. They also prevent light penetration, oxygen depletion or circulation, free movement of fish and netting operation. They helps in sheltering fish enemies especially predatory animals, predatory and weed fishes and insects. Filamentous algae often get entangled in the gills of the fish and

suffocate them to death. Floating weed cover the entire water surface cutting off light drastically, thus resulting in critical reduction in primary productivity of the pond. The aquatic weed can be controlled by following method. 1. Manual & Mechanical Control 2. Chemical Control 3. Biological Control Manual control is employed in rural areas. It is an age old practice. Small and shallow ponds are easily managed since weeds whether floating or su

bmersed can be easily remove manually with simple

implements like Sickles, Rakes, Hooks, Nets and ropes.

Mechanical devices used for clearance of rooted submerged weeds are steel cables culting chains and diesel operated winches. CHEMICAL CONTROL-Large pond body can not be

CHEMICAL CONTROL -Large pond body can not be managed by manual and mechanical method.

Therefore certain commercially available means of eradication of undesirable aquatic plants.

Floating weeds ex. Water Hycinth -2.4-Dichlorophenovy acitic acid.

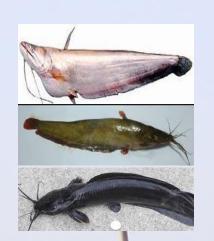
Emergent weeds ex. Water lily, lotus are erodicated by spraying theherbicide 2-4-D @8-10kg/ha.

SUBMERGED WEED ex. Vallisnaria, Hydrilla, Najas can be controlled by copper sulphate and s. arsenite. Sodium arsenite 5-6ppm without killing fish. Anhydrous Ammonia @ 15-20ppm. MARGINAL WEED ex. Gpomea, typha, etc can be controlled by spraying the herbicides 2-4-D @8kg/ha Paraquat 1.0kg/ha Aquous Ammonia @ 50-70kg/ha Copper Sulphate @ 35kg/ha BIOLOGICAL CONTROL OF AQUATIC WEEDS Another important controlling method is by introducing of weed eater fishes. As for example Common carps Gaurami, Tilapia, Pearl spot, the Grass carps and a species of Puntius are the fishes known as weed eating habits.



ERADICATION OF PREDATORY FISHES & WEED FISHES

Large number of predatory fishes are found in the pond which prey upon the spawn, fr and fingerlings of carps. Weed fishes complete with carp for food, space and oxygen. So predatory and weed fish should be complete eradicated from Nursery, rearing and stocking pond before these ponds are stocked The most common predatory fishes are Channa spp., Clarias batrachus, H.fossilis, Pangasius, Mystus spp, Ompok spp, Wallago attu, Glassogobius giuris, Mastacembelus spp, & Amphipnous cuchia etc.



Various methods are adopted for their eradication during pond prepration or are-stocking of spawn, fry & fingerlings. Since drainage of pond is not always possible and repeated netting don't assure total removal of undesirable biota particularly trash and predatory fish. Some toxicant are used for eradication of predatory and weed fishes. MAHUA OIL (Basia Latifolia) It kills all the fish species within a few hours when applied at the rate of 250ppm. It contains about 4.6% of active ingredient, the saponia. It should be applied at least two weeks before stocking the pondia.

* BLEACHING POWDER (caoci, calcium hypochlorite) It is another

practical & safe fish toxicant. It kill all the predatory and weed fish of

